

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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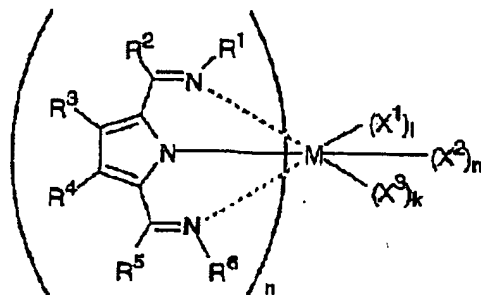
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TITLE : NEW METAL COMPLEX COMPOUND  
HAVING LIGAND HAVING 2, 5-  
DIIMINOMETHYLPYRROLE SKELETON  
AND CATALYST WHICH CONTAIN THE  
COMPLEX COMPOUND AND IS USED  
FOR POLYMERIZING ALPHA-OLEFIN



(1)

ABSTRACT : PROBLEM TO BE SOLVED: To provide a new metal complex compound useful as a catalyst for producing  $\alpha$ -olefin polymers which have high mol.wts. and high melting points and can be subjected to extrusion molding treatments and injection molding treatments.

SOLUTION: A metal complex compound which has at least one ligand having a substituted or non-substituted 2,5-diiminomethylpyrrole skeleton, such as a metal complex compound represented by the general formula (1) [N is a nitrogen atom; M is an element selected from the transition metals of the groups 3 to 10 in the periodic table, aluminum, and lanthanoids; X1 to X3, and R1 to R6 are each independently H, a halogen, a 1 to 20C hydrocarbon group, a 1 to 20C silicon-containing hydrocarbon group, a 1 to 20C halogenated hydrocarbon group, a 1 to 20C oxygen-containing hydrocarbon group, or a 1 to 20C nitrogen-containing hydrocarbon group; R3 and R4 may be condensed with a 2 to 6C carbon chain to form a ring; (n) is an integer of 1 to 3; (k), (l) and (m) are each an integer of 0 to 3, and satisfy the expression:  $1 \leq (k+l+m+n) \leq 5$ ].

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